



## Tanksweep



Remote Systems for Hazardous Environments



## About Us

Established more than twenty years ago, Non Entry Systems Ltd (NESL) is a leading global manufacturer of specialist non-man entry tank cleaning equipment, sludge handling equipment and sludge treatment & oil recovery plants.

NESL is located in Swansea, South Wales in the United Kingdom and operates from an eighteen thousand square-foot facility. As all equipment is conceived, designed and manufactured on-site the facility incorporates offices, R&D, design, fabrication, assembly, testing, preparation & painting, and electrical workshops.

NESL are renowned experts in the design, manufacture and delivery of specialist equipment and systems and offer quality tailored solutions and systems that meet the needs of professional safety conscious contractors. We work closely with our customers, suppliers and end users to ensure compliance with the varying regulatory specifications in different countries. All NESL products are built to operate and last in hazardous environments and as such all products conform with the latest industry regulations such as ATEX, UL, and CE. In addition, all of the company's products are designed with functionality and user-friendliness in mind.

To ensure the highest standards possible, NESL has its own project managers who oversee each and every build. Components not manufactured in-house are sourced from trusted suppliers not only locally but from around the world that meet the same high levels of excellence as NESL. Each major component is catalogued, every serial number recorded and each item of equipment built by highly trained and experienced individuals.

All of the company's products and systems are the result of decades of design, testing, engineering expertise, innovation, dedication and first-hand experience of tank cleaning and its challenges. All these factors have contributed to NESL's equipment operating on storage facilities and refineries around the globe. Through our network of global agents, we are able to respond to any request, at any time.

## Clients Include

- Department of Energy – United States
- IBKA – Europe
- Veolia – Europe & United States
- Evergreen – Canada & United States
- Waste Reduction Services Ltd – United Kingdom
- KSS – Kazakhstan
- Environ – Nigeria
- Sepor – Spain
- Clean Harbors – United States
- PSC – United States
- NG – Norway
- Denholm Macnamee – United Kingdom
- PetroTech Services – United Kingdom

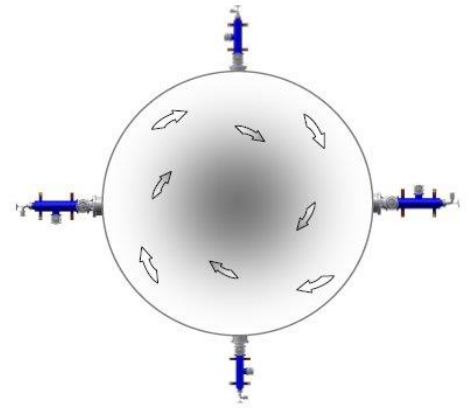
## Products & Services

Whatever requirements you or your client have we have a solution available and in the rare circumstances we don't have one readily available, we'll work with you and your client to find one. NESL have been put to the test many times in the past and have always been able to provide an innovative, cost effective and safe solution.

The NESL Tank Sweep system is designed for the de-sludging of bulk fuel and chemical storage tanks by the control and circulation of a high velocity liquid streams through directable nozzles fitted to the tank shell.

Depending on the size of the tank and the product stored up to four sets of tank sweeps might be required with each of them where possible spaced evenly around the tank perimeter. The tanksweeps are all a standard length but where space is restricted a more compact version is available.

Typically, two Tanksweeps are required for tanks up to fifty meters in diameter, three Tanksweeps are required for tanks with diameters between fifty and eighty meters, and four Tanksweeps are required where the tank has a diameter greater than eighty meters.



Tanksweeps will prevent a build-up of sludge on the tank floor by creating a movement in the oil inside the tank. This movement ensures that any solids are suspended in the mobile oil and do not settle on the tank floor. The nozzles can be rotated 200 degrees either manually from outside of the tank by means of a hand wheel, or the unit can be hydraulically controlled.

The portable tanksweep systems has been so successful that over eighty units have been manufactured and sold around the world. Building on the success NESL also offers a fixed tanksweep system that can be installed on new tanks or tanks undergoing repair to be bought back into service.

Each system is comprised the following major components:

- Tank Sweep Unit
- Filter Unit
- Centrifugal Pump Unit
- Hose Set
- Bolt Kit
- Hydraulic Jacking Pump

Each Tanksweep is capable of a throughput of over six hundred cubic meters per hour when used in conjunction with the NES 500D or a similar rated pump at a pressure of ten bar and has a sweep angle of two hundred degrees.

The NES 500D pump unit is certified for use in areas classified as a Zone II. Each unit is fitted with automatic shutdown protection including a gas detector, chawlyn valve, and spark arrestor.





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